

I Claim:

1. An Improved Structure of a Fixed and Turning Connecting Shaft mainly comprises;

- a connecting shaft, one end of said connecting shaft having
5 a fixed connecting part for connecting to a pneumatic tool with
driven power, another end is a connecting part of curved shape
for connecting to a socket, an axial hole is disposed on the inner
circumference of said connecting part, a ball hole is disposed on
each side of said connecting part respectively, said ball holes are
10 connected with said axial hole and each of them is for a steel ball
to place inside, said connecting shaft having a groove hole
which is connected to said axial hole, said groove hole is for a
positioning pivotal element to insert into for positioning a
speedily assembly;
- 15 a speedily assembly comprises an axial rod which passes
through said axial hole, and a sliding control element which is
disposed at a suitable position of said connecting shaft and can
drives said axial rod to change position, a first and a second
concave grooves are disposed on one end of said axial rod in
20 corresponding to said two ball holes of said connecting part,
another end of said axial rod having a pivotal hole for
connecting to said sliding control element, accordingly, said
sliding control element can moves along the axis, and drives
said axial rod to move at the same time, so that said first and
25 second concave grooves will also change in positions, to control
said two positioning steel balls to perform engaging function
when said socket turns or fixedly sleeves on said connecting

shaft.

2. An Improved Structure of a Fixed and Turning
Connecting Shaft as claimed in Claim 1, said sliding control
5 element is a socket body for sleeving on said connecting shaft, a
pivotal hole is disposed on the outer circumference of said
sliding control element, and a first, second and third positioning
circular grooves in neighboring with each other are disposed on
the inner circumference of said sliding control element, said
10 axial rod having a pivotal hole on one end, so that a positioning
pivotal element can pass through said pivotal hole of said
sliding control element and said pivotal hole of said axial rod,
thus said speedily assembly is formed, furthermore, a
positioning rubber is disposed on one said positioning circular
15 grooves of said sliding control element, so that when said
sliding control element moves with said axial rod together, said
positioning rubber can engage with one said positioning circular
grooves to achieve the purpose or positioning.

20 3. An Improved Structure of a Fixed and Turning
Connecting Shaft as claimed in Claim 1, said two ball holes are
disposed on said connecting part on two opposite sides.

25 4. An Improved Structure of a Fixed and Turning
Connecting Shaft as claimed in Claim 1, a shoulder in
corresponding to the inner circumference of said socket is
disposed between said connecting shaft and said connecting part,

when said connecting shaft is connected to said socket in a straight direction, said shoulder is connected with the inner circumference of said socket.

5 5. An Improved Structure of a Fixed and Turning Connecting Shaft mainly comprises;

a connecting shaft, one end of said connecting shaft having a fixed connecting part for connecting to a pneumatic tool with driven power, another end is a connecting part of curved shape

10 for connecting to a socket, an axial hole is disposed on the inner circumference of said connecting part, a ball hole is disposed on each side of said connecting part respectively, said ball holes are connected with said axial hole and each of them is for a steel ball to place inside, a shoulder in corresponding to the inner
15 circumference of said socket is disposed between said connecting shaft and said connecting part, said connecting shaft having a groove hole which is connected to said axial hole, said groove hole is for a positioning pivotal element to insert into for positioning a speedily assembly;

20 a speedily assembly comprises an axial rod which passes through said axial hole, and a sliding control element which is disposed at a suitable position of said connecting shaft, and is for said positioning pivotal element to go through, a first and a second concave grooves are disposed on one end of said axial
25 rod in corresponding to said two ball holes of said connecting part, another end of said axial rod having a pivotal hole for connecting to said sliding control element, accordingly, said

sliding control element can moves along the axis, and drives said axial rod to move at the same time, so that said first and second concave grooves will also change in positions, to control said two positioning steel balls to perform engaging function
5 when said socket turns or fixedly sleeves on said connecting shaft.

6. An Improved Structure of a Fixed and Turning Connecting Shaft as claimed in Claim 5, said sliding control
10 element is a socket body for sleeving on said connecting shaft, a first, second and third positioning circular grooves in neighboring to each other are disposed on the inner circumference of said sliding control element, a positioning rubber is disposed on said connecting shaft, so that when said
15 sliding control element drives said axial rod to move at the same, said positioning rubber engages with one of said positioning circular grooves to achieve positioning purpose.

7. An Improved Structure of a Fixed and Turning
20 Connecting Shaft as claimed in Claim 5, said two ball holes are disposed on the two sides of said connecting part respectively.